



PATENT ABSTRACTS OF JAPAN

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(71) Applicant: **SHIMIZU CONSTR CO LTD**
 (72) Inventor: **TANAKA MASAHIRO**
KIYOKAWA TETSUSHI
OYAMA TAKUMI
HIRAYAMA AKIHIKO

(54) **ARTIFICIAL REEF**

(57) Abstract:

PURPOSE: To perform proper exchange of sea water all the time by a method in which an artificial reef is made up of a flexible sheet bag held on the seabed and a fluid such as sea water, air, etc., to expand the flexible sheet bag, and a partitioned chamber to vary the height of the bag by the fluid is provided.

CONSTITUTION: A bag 1 made of a flexible sheet, e.g., vinyl chloride sheet, etc., having a liquid-tight integral structure consisting of a flat and curved upper face 3 and a ground-contact part 4 to be touched by the seabed ground 2, is held on the seabed 2 through anchors A to protect it from the effects of tidal waves and current. A fluid F, e.g., sea water or air, to expand the bag 1 is injected through the lower part valve 5 of the upper face 3 into the bag 1. A compartment chamber 6 to vary the height of the bag 1 by the amount of the fluid F is formed in the bag 1, and two rows of auxiliary partitioned chambers 7 are formed on the periphery of the upper face 3. The fluid F is injected into the

partitioned chambers through the valve 8. The height of the artificial reef so formed can thus be selectively varied.

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